

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/562,134
Source: 1FW.P
Date Processed by STIC: 1/10/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. **EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)**
2. **U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314**

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/562,134

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 **Wrapped Nucleics** The number/text at the end of each line “wrapped” down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent “wrapping.”

2 **Invalid Line Length** The rules require that a line **not exceed 72** characters in length. This includes white spaces.

3 **Misaligned Amino Numbering** The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.

4 **Non-ASCII** The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. Please **ensure your subsequent submission is saved in ASCII text.**

5 **Variable Length** Sequence(s) contain n’s or Xaa’s representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 **PatentIn 2.0 “bug”** A “bug” in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**

7 **Skipped Sequences (OLD RULES)** Sequence(s) missing. If intentional, please insert the following lines for **each** skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where “X” is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where “X” is shown)
This sequence is intentionally skipped

Please also adjust the “(ii) NUMBER OF SEQUENCES:” response to **include** the skipped sequences.

8 **Skipped Sequences (NEW RULES)** Sequence(s) missing. If **intentional**, please insert the following lines for **each** skipped sequence.
<210> sequence id number
<400> sequence id number
000

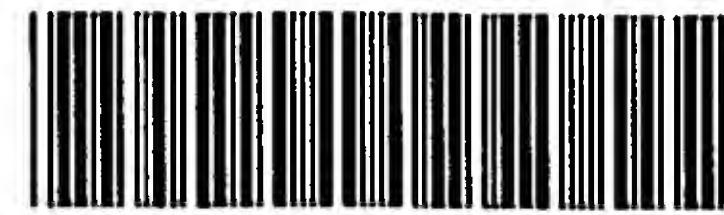
9 **Use of n’s or Xaa’s (NEW RULES)** Use of n’s and/or Xaa’s have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n’s or Xaa’s are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 **Invalid <213> Response** Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence

11 **Use of <220>** Sequence(s) missing the <220> “Feature” and associated numeric identifiers and responses.
Use of <220> to <223> is **MANDATORY** if <213> “Organism” response is “Artificial Sequence” or “Unknown.” Please explain source of genetic material in <220> to <223> section.
(See “Federal Register,” 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12 **PatentIn 2.0 “bug”** Please do not use “Copy to Disk” function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use “File Manager” or any other manual means to copy file to floppy disk.

13 **Misuse of n/Xaa** “n” can **only** represent a single nucleotide; “Xaa” can **only** represent a single amino acid



IFWP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/562,134

DATE: 01/10/2006
TIME: 09:40:07

Input Set : A:\PCTEP04007090.txt
Output Set: N:\CRF4\01102006\J562134.raw

3 <110> APPLICANT: TOOKE, NIGEL
4 EKSTROM, BJORN
6 <120> TITLE OF INVENTION: NEW METHOD
8 <130> FILE REFERENCE: 71870-82448
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/562,134
C--> 11 <141> CURRENT FILING DATE: 2005-12-23
13 <150> PRIOR APPLICATION NUMBER: SE 0301951-0
14 <151> PRIOR FILING DATE: 2003-06-30
16 <150> PRIOR APPLICATION NUMBER: US 60/481,043
17 <151> PRIOR FILING DATE: 2003-06-30
19 <150> PRIOR APPLICATION NUMBER: US 60/481,319
20 <151> PRIOR FILING DATE: 2003-09-01
22 <160> NUMBER OF SEQ ID NOS: 30
24 <170> SOFTWARE: PatentIn version 3.2
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 27
28 <212> TYPE: DNA
29 <213> ORGANISM: Artificial
31 <220> FEATURE:
32 <223> OTHER INFORMATION: Artificial
34 <400> SEQUENCE: 1
35 cagcagcagc agcagcagca gcagcag
38 <210> SEQ ID NO: 2
39 <211> LENGTH: 6
40 <212> TYPE: DNA
41 <213> ORGANISM: Artificial
43 <220> FEATURE:
44 <223> OTHER INFORMATION: Artificial
46 <400> SEQUENCE: 2
47 gtcgtc
50 <210> SEQ ID NO: 3
51 <211> LENGTH: 12
52 <212> TYPE: DNA
53 <213> ORGANISM: Artificial
55 <220> FEATURE:
56 <223> OTHER INFORMATION: Artificial
58 <400> SEQUENCE: 3
59 gtcgtcgtcg tc
62 <210> SEQ ID NO: 4
63 <211> LENGTH: 15
64 <212> TYPE: DNA
65 <213> ORGANISM: Artificial
67 <220> FEATURE:

Does Not Comply
Corrected Diskette Needed

global error

insufficient response - give source of genetic material

(see item 11 on

27 Error

summary
sheet)

6

12

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/562,134

DATE: 01/10/2006
TIME: 09:40:07

Input Set : A:\PCTEP04007090.txt
Output Set: N:\CRF4\01102006\J562134.raw

68 <223> OTHER INFORMATION: Artificial
70 <400> SEQUENCE: 4
71 gtcgtcgtcg tcgtc 15
74 <210> SEQ ID NO: 5
75 <211> LENGTH: 21
76 <212> TYPE: DNA
77 <213> ORGANISM: Artificial
79 <220> FEATURE:
80 <223> OTHER INFORMATION: Artificial
82 <400> SEQUENCE: 5 21
83 gtcgtcgtcg tcgtcgtcg c
86 <210> SEQ ID NO: 6
87 <211> LENGTH: 27
88 <212> TYPE: DNA
89 <213> ORGANISM: Artificial
91 <220> FEATURE:
92 <223> OTHER INFORMATION: Artificial
94 <400> SEQUENCE: 6 27
95 cggcgccggc ggcggcgccg gcggcgg
98 <210> SEQ ID NO: 7
99 <211> LENGTH: 6
100 <212> TYPE: DNA
101 <213> ORGANISM: Artificial
103 <220> FEATURE:
104 <223> OTHER INFORMATION: Artificial
106 <400> SEQUENCE: 7 6
107 gccgcc
110 <210> SEQ ID NO: 8
111 <211> LENGTH: 12
112 <212> TYPE: DNA
113 <213> ORGANISM: Artificial
115 <220> FEATURE:
116 <223> OTHER INFORMATION: Artificial
118 <400> SEQUENCE: 8 12
119 gccgccgccc cc
122 <210> SEQ ID NO: 9
123 <211> LENGTH: 15
124 <212> TYPE: DNA
125 <213> ORGANISM: Artificial
127 <220> FEATURE:
128 <223> OTHER INFORMATION: Artificial
130 <400> SEQUENCE: 9 15
131 gccgccgccc ccc
134 <210> SEQ ID NO: 10
135 <211> LENGTH: 21
136 <212> TYPE: DNA
137 <213> ORGANISM: Artificial
139 <220> FEATURE:
140 <223> OTHER INFORMATION: Artificial

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/562,134

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TIME: 09:40:07

Input Set : A:\PCTEP04007090.txt
Output Set: N:\CRF4\01102006\J562134.raw

142 <400> SEQUENCE: 10
143 gccggccgccc cccggccgc c 21
146 <210> SEQ ID NO: 11
147 <211> LENGTH: 20
148 <212> TYPE: DNA
149 <213> ORGANISM: Artificial
151 <220> FEATURE:
152 <223> OTHER INFORMATION: Artificial
154 <400> SEQUENCE: 11
155 atgggtgcacc tgactcctga 20
158 <210> SEQ ID NO: 12
159 <211> LENGTH: 21
160 <212> TYPE: DNA
161 <213> ORGANISM: Artificial
163 <220> FEATURE:
164 <223> OTHER INFORMATION: Artificial
166 <400> SEQUENCE: 12
167 ggagaagtct gccgttactg c 21
170 <210> SEQ ID NO: 13
171 <211> LENGTH: 41
172 <212> TYPE: DNA
173 <213> ORGANISM: Artificial
175 <220> FEATURE:
176 <223> OTHER INFORMATION: Artificial
178 <400> SEQUENCE: 13
179 gcagtaacgg cagacttctc ctcaggagtc aggtgcacca t 41
182 <210> SEQ ID NO: 14
183 <211> LENGTH: 41
184 <212> TYPE: DNA
185 <213> ORGANISM: Artificial
187 <220> FEATURE:
188 <223> OTHER INFORMATION: Artificial
190 <400> SEQUENCE: 14
191 atgggtgcacc tgactcctga ggagaagtct gccgttactg c 41
194 <210> SEQ ID NO: 15
195 <211> LENGTH: 15
196 <212> TYPE: DNA
197 <213> ORGANISM: Artificial
199 <220> FEATURE:
200 <223> OTHER INFORMATION: Artificial
202 <400> SEQUENCE: 15
203 acggcagact tctcc 15
206 <210> SEQ ID NO: 16
207 <211> LENGTH: 36
208 <212> TYPE: DNA
209 <213> ORGANISM: Artificial
211 <220> FEATURE:
212 <223> OTHER INFORMATION: Artificial
214 <400> SEQUENCE: 16

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/562,134

DATE: 01/10/2006
TIME: 09:40:07

Input Set : A:\PCTEP04007090.txt
Output Set: N:\CRF4\01102006\J562134.raw

215 cggcggcggc ggccggcggc gcggcggcgg cggcgg 36
 218 <210> SEQ ID NO: 17
 219 <211> LENGTH: 30
 220 <212> TYPE: DNA
 221 <213> ORGANISM: Artificial
 223 <220> FEATURE:
 224 <223> OTHER INFORMATION: Artificial
 226 <400> SEQUENCE: 17
 227 ctgctgctgc tgctgctgct gctgctgctg 30
 230 <210> SEQ ID NO: 18
 231 <211> LENGTH: 60
 232 <212> TYPE: DNA
 233 <213> ORGANISM: Artificial
 235 <220> FEATURE:
 236 <223> OTHER INFORMATION: Artificial
 238 <400> SEQUENCE: 18
 239 ctgctgctgc tgctgctgct gctgctgctg ctgctgctgc tgctgctgct gctgctgctg 60
 242 <210> SEQ ID NO: 19
 243 <211> LENGTH: 9
 244 <212> TYPE: DNA
 245 <213> ORGANISM: Artificial
 247 <220> FEATURE:
 248 <223> OTHER INFORMATION: Artificial
 250 <400> SEQUENCE: 19 9
 251 cagcagcag
 254 <210> SEQ ID NO: 20
 255 <211> LENGTH: 59
 256 <212> TYPE: DNA
 257 <213> ORGANISM: Streptococcus salivarius
 260 <220> FEATURE:
 261 <221> NAME/KEY: misc_feature
 262 <222> LOCATION: (34)..(36)
 263 <223> OTHER INFORMATION: n is a, c, g, or t
 265 <400> SEQUENCE: 20
 W--> 266 taggtgaatt aataaggccta gggacttgat tttnnncaag ttacggcgag tgaactggc 59
 269 <210> SEQ ID NO: 21
 270 <211> LENGTH: 59
 271 <212> TYPE: DNA
 272 <213> ORGANISM: Streptococcus vestibularis
 275 <220> FEATURE:
 276 <221> NAME/KEY: misc_feature
 277 <222> LOCATION: (34)..(36)
 278 <223> OTHER INFORMATION: n is a, c, g, or t
 280 <400> SEQUENCE: 21
 W--> 281 taggtgaatc aataaggccta gggacttgat tttnnncaag ttacggcgag cgaacttagc 59
 284 <210> SEQ ID NO: 22
 285 <211> LENGTH: 59
 286 <212> TYPE: DNA
 287 <213> ORGANISM: Streptococcus orisratti

OK good

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/562,134

DATE: 01/10/2006
TIME: 09:40:07

Input Set : A:\PCTEP04007090.txt
Output Set: N:\CRF4\01102006\J562134.raw

289 <400> SEQUENCE: 22
290 taggcgaaaa aataaggccta gggggtagt ctttctgcc ctacggcgag taaaatggc 59
293 <210> SEQ ID NO: 23
294 <211> LENGTH: 59
295 <212> TYPE: DNA
296 <213> ORGANISM: Streptococcus canis
299 <220> FEATURE:
300 <221> NAME/KEY: misc_feature
301 <222> LOCATION: (29)..(30) /
302 <223> OTHER INFORMATION: n is a, c, g, or t
304 <220> FEATURE:
305 <221> NAME/KEY: misc_feature
306 <222> LOCATION: (35)..(36)
307 <223> OTHER INFORMATION: n is a, c, g, or t
309 <400> SEQUENCE: 23
W--> 310 taggcgaaca aataaggccta gggatgtgnn cttgnncaca ttacggcgga gaaaatggc 59
313 <210> SEQ ID NO: 24
314 <211> LENGTH: 59
315 <212> TYPE: DNA
316 <213> ORGANISM: Streptococcus equi zooepid
319 <220> FEATURE:
320 <221> NAME/KEY: misc_feature
321 <222> LOCATION: (29)..(30) /
322 <223> OTHER INFORMATION: n is a, c, g, or t
324 <220> FEATURE:
325 <221> NAME/KEY: misc_feature
326 <222> LOCATION: (36)..(36)
327 <223> OTHER INFORMATION: n is a, c, g, or t
329 <400> SEQUENCE: 24
W--> 330 taggcgaaca aataaggccta gggatgtgnn tttgancaca ttacggcgag tgaaaaggc 59
333 <210> SEQ ID NO: 25
334 <211> LENGTH: 59
335 <212> TYPE: DNA
336 <213> ORGANISM: Streptococcus dysgal equi
339 <220> FEATURE:
340 <221> NAME/KEY: misc_feature
341 <222> LOCATION: (29)..(30) /
342 <223> OTHER INFORMATION: n is a, c, g, or t
344 <220> FEATURE:
345 <221> NAME/KEY: misc_feature
346 <222> LOCATION: (35)..(36)
347 <223> OTHER INFORMATION: n is a, c, g, or t
349 <400> SEQUENCE: 25
W--> 350 taggcgaaca aataaggccta gggatgtgnn cttanntaca ttacggcgaa gaaaatggc 59
353 <210> SEQ ID NO: 26
354 <211> LENGTH: 59
355 <212> TYPE: DNA
356 <213> ORGANISM: Streptococcus parauberis
359 <220> FEATURE:

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/562,134

DATE: 01/10/2006
TIME: 09:40:08

FYI
Input Set : A:\PCTEP04007090.txt
Output Set: N:\CRF4\01102006\J562134.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:20; N Pos. 34,35,36
Seq#:21; N Pos. 34,35,36
Seq#:23; N Pos. 29,30,35,36
Seq#:24; N Pos. 29,30,36
Seq#:25; N Pos. 29,30,35,36
Seq#:26; N Pos. 28,29,30,31
Seq#:27; N Pos. 29,30
Seq#:28; N Pos. 29,30,35,36
Seq#:29; N Pos. 29,30,35,36
Seq#:30; N Pos. 33,36

Invalid <213> Response:

~~Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.~~

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19

ignore this

VERIFICATION SUMMARY DATE: 01/10/2006
PATENT APPLICATION: US/10/562,134 TIME: 09:40:08

Input Set : A:\PCTEP04007090.txt
Output Set: N:\CRF4\01102006\J562134.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:281 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:330 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:350 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:365 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:380 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:400 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:440 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0